

PRODUCT BROCHURE

SAUTER FH 1K

Date: 23.04.2025

ENGLISH



Universal digital force gauge for tensile and compressive force measurements with external load cell

CONTACT

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PRODUCT SHOWCASE



ENGLISH

DESCRIPTION

- Turnable display with backlight
- NEW: USB interface for data transfer and power supply as standard
- Data interface RS-232 as standard
- Selectable measuring units: N, kN, kgf, tf
- Peak-Hold function to capture the peak value or Track function for continuous display of measurement
- Measuring with tolerance range (limit-setting function): Upper and lower limit adjustable, in pull and push direction. The process is supported by an audible and visual signal
- Auto-Power-Off
- Internal memory for up to 10 measurement values
- Mini Statistics Kit: calculates the average result from up to 10 stored measured values, as well as min., max., n
- Tension loops and compression plates are included in delivery
- Delivered in a robust carrying case

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	FH 1K
Model-Serie	FH-M-EXT
Assortment	Sauter

Product Type	Force measurement
Product group	Digital force-measuring devices (external sensor)
Product usage type	Main item;Accessories/Services
EAN code (Model)	4045761368507

Predecessor Model FH 1K-2019a; FH 1K-2023a

Customs tariff number 90248000

Technical data - Primary

Max. Force 1 kN

Readability 0.5 N

Technical data - Construction

Dimension housing (W×D×H) 45×25×0 mm

Material housing plastic

Mounting thread threaded hole M12

Technical data - Display

Display type LCD

DisplayReverse yes

Technical data - Power supply

Power supply Battery & Power supply

Battery type NiMH

Operating time (Display off) 40 h

Operating time (Display on) 24 h

Technical data - Measuring system

Units N

Tolerance (% from Max.) 0.5%

Force direction compression;tension

Technical data - Functions

Statistic-Function yes

Limit value (Min - Max) yes

Audible ready signal yes

Interface RS-232 standard;USB-Device

Technical data - Environmental conditions

Maximum operating temperature 40 °C

Minimum storage temperature 40 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H) 330×190×175 mm

Gross weight 2.8 kg

Net weight 1.6 kg

Shipping method Parcel service

UN number Ni-MH (UN 3496, Packing Instruction #0, Not Restricted as per Special Provision A199)

Packaging component - by weight - cardboard 210 g

Packaging component - by weight - plastics 14 g

Packaging component - by weight - styrofoam 536.5 g

Delivery time 1 d

Technical data - Counting data

Memory yes

Value memory - number of groups 1

Value memory - number of cells (per group) 10

Optional Services

DAkkS calibration - push/pull 963-362

DAkkS calibration - push only 963-262

DAkkS calibration - pull only 963-162

FUNCTIONS

Standard



Option



ACCESSORIES

Model	Description
YKA-01	Power supply KERN YKA-01
AC 18	Clamp SAUTER AC 18
YKA-02	Power supply adapter set KERN YKA-02
AC 12R	Clamp SAUTER AC 12R
AFM 14	Adapter KERN AFM 14
AFM 18	Thread SAUTER AFM 18
AC 43	Standard attachments SAUTER AC 43
FH-A01	Interface cable FH-A01

Model	Description
AC 18R	Clamp SAUTER AC 18R
AC 45	Force sensor SAUTER AC 45
FH-A04	Interface cable FH-A04
AFM 16	Adapter KERN AFM 16
AFM 21	Thread SAUTER AFM 21
AC 47	Force sensor SAUTER AC 47
AC 02	Stainless steel ball-shaped head SAUTER AC 02
AC 03	Clamp SAUTER AC 03
AC 12	Clamp SAUTER AC 12
AC 11R	Clamp SAUTER AC 11R
AFM 17	Thread SAUTER AFM 17
AC 46	Force sensor SAUTER AC 46
AE 08	Pressure plate SAUTER AE 08

SERVICES

Model	Description
961-362	Factory calibration KERN 961-362
963-362	DAkkS Calibration KERN 963-362
963-162	DAkkS Calibration KERN 963-162
963-262	DAkkS Calibration KERN 963-262
970-105	Warranty extension KERN (+2 years) 970-105
961-162	Factory calibration KERN 961-162
961-262	Factory calibration KERN 961-262

SPARE PARTS

Model	Description
YKA-02	Power supply adapter set KERN YKA-02
AFH 30	Removable battery AFH 30
FH-A02	Display overlay FH-A02
FS-E07	Power supply KERN FS-E07
OBB-A1569	UK power supply unit KERN OBB-A1569
FS-E06	Cable SAUTER FS-E06

SOFTWARES

Model	Description
AFH FD	Data Transfer Software SAUTER AFH FD
AFH LD	Data Transfer Software SAUTER AFH LD
AFH FAST	Data Transfer Software SAUTER AFH FAST

RELATED ARTICLES DATA

Model name	Max. Force	Readability
FH 20K	20 kN	10 N
FH 50K	50 kN	10 N
FH 1K	1 kN	0.5 N
FH 5K	5 kN	1 N
FH 100K	100 kN	50 N